



Airbus record on flight recorders recovery

• Aircraft wreckage and recorder recovery:

Longest lead time is flight AF447 accident. Airbus did fully support the sea searches activities (financially and logistically)

Recorders finally recovered on all events

 After AF447 accident, Airbus pro-actively participates to all international activities to improve the industry standards

Wreckage localization	Immediately after accident	All except:
	Between few hours and few days	3
	More than few days	1 (2years)
Recorders recovery	Quickly after wreckage	All except:
	Few days after wreckage	3
	More than few days	
Recorders condition (Data + Voice)	With good data	All except:
	Damaged but decoded	2
	Damaged	1
	Failed before accident	1



Ground

segments:
Airline,

ATC, SAR

Current aircraft localization solutions

Airlines can broadcast periodic reports including aircraft position:

Communication

<u>Today</u>, almost all Airbus Long Range fleet is equipped with FANS-A, capable of:

- AOC or Maintenance report broadcast to the airline (software modification)
- ADS-B: Report broadcast to ATC, continental only
- ADS-C: Report broadcast to ATC but ground segment not yet worldwide deployed

Next step:

 ADS-B: report broadcast to ATC pending worldwide satellite constellation coverage



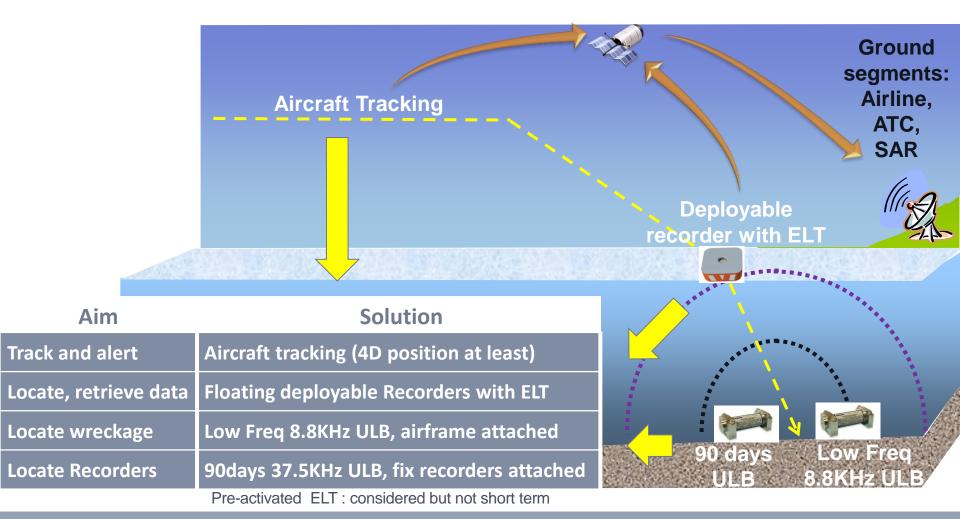
ADS-B / C: Automatic Dependent Surveillance-Broadcast / Contract

FANS: Future Air Navigation System

ELT

(crash triggered)

Short/medium term solutions to improve aircraft localization



Potential short / medium term solutions for Airbus programs

		A320	A330 A340	A350	A380	
Solutions		family	family	family		Aim
Aircraft tracking	Retrofit	•	•	•	•	✓ Permanent tracking✓ Early warning
	Forward-Fit	•	•	•	•	
2 combined data/voice	Retrofit					✓ Accident location
recorders, one being deployable with ELT	Forward-Fit			•	•	✓ Retrieve data
Low Frequency ULB attached to airframe	Retrofit	*	•	•	•	✓ Wreckage location
	Forward-Fit	*	•	•	•	
90days ULB attached	Retrofit	•	•	•	•	✓ Recorder location
to fix recorders	Forward-Fit	•	•	•	•	Necorder location
		*	If operated over water			

Thank-you

